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## Patent &amp; Utility Model Concordance

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## PATENT ABSTRACTS OF JAPAN

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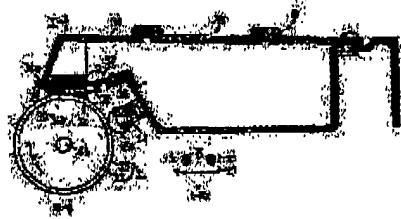
(71)Applicant : FUJI XEROX CO LTD  
 (72)Inventor : OIKE HIDEAKI

## (54) IMAGE FORMING DEVICE AND PROCESS CARTRIDGE THE DEVICE FOR

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To prevent the photoreceptive coating film on the surface of an image carrier from being worn because it is brought into contact with the edge of an electrifying roll and to prevent image quality from deteriorating and to prevent the service life of the image carrier from being shortened because a surface layer is worn or damaged.

**SOLUTION:** This image forming device is equipped with an image carrier 21 provided with a rotating and moving endless image carrier base material 22 and a photoreceptive coating film 23 formed at the surface of the base material 22 and constituted so that the film 23 is provided with a uniform coating film area at the central part in the width direction and a non-uniform coating film area formed at both end parts in the width direction, the electrifying roll 24a which is brought into contact with the surface of the carrier 21 so as to electrify it while being rotated, whose width is smaller than that of the carrier 21, whose outside diameter of both end parts is reduced as it is advanced to the outside end and which is arranged so that the positions of both ends brought into contact with carrier 1 become the nonuniform coating area, a latent image forming device 2 forming an electrostatic latent image at the electrified surface of the carrier 21 and a developing device developing the electrostatic latent image formed on the carrier 21 to a toner image.



## LEGAL STATUS

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## Patent &amp; Utility Model Concordance

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[JP,2000-321930,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL  
FIELD PRIOR ART EFFECT OF THE INVENTION  
TECHNICAL PROBLEM MEANS OPERATION  
EXAMPLE DESCRIPTION OF DRAWINGS DRAWINGS

[Translation done.]

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- 1.This document has been translated by computer. So  
the translation may not reflect the original precisely.
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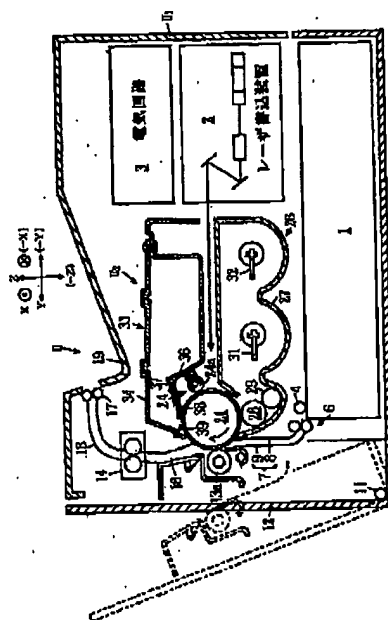
## CLAIMS

[Claim(s)]

[Claim 1] Image formation equipment characterized by  
providing the following The image support which has  
the photo conductor paint film formed in the image  
support base material of the shape of endless [ to rotate ], and its front face, and has the uneven paint  
film field where the aforementioned photo conductor  
paint film was formed in the uniform paint film field  
and the crosswise edge of a crosswise center section  
The electrification roll arranged so that it may reduce  
as it has width of face smaller than the width of face  
of the aforementioned image support and the outer  
diameter of an edge goes to an outer edge, while  
electrifying the aforementioned image support body  
surface, contacting the aforementioned image support  
body surface and rotating, and the aforementioned  
edge may counter the aforementioned uniform paint  
film field of the aforementioned image support Latent-  
image formation equipment which forms an  
electrostatic latent image in the electrified image  
support body surface The developer which develops  
the electrostatic latent image on the aforementioned  
image support in a toner image, and Imprint equipment  
which imprints the toner image on the aforementioned  
image support

[Claim 2] The process cartridge for image formation  
equipments characterized by providing the following  
The image support which has the photo conductor  
paint film formed in the image support base material of  
the shape of endless [ to rotate ], and its front face,  
and has the uneven paint film field where the  
aforementioned photo conductor paint film was formed  
in the uniform paint film field and the crosswise edge  
of a crosswise center section The developer develop  
negatives to a toner image in the electrification roll  
arranged so that it may reduce as it has width of face  
smaller than the width of face of the aforementioned  
image support and the outer diameter of an edge goes

Drawing selection [Representative drawing]



[Translation done.]